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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

OCT 31 2003

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

Complete if Known

Application Number 10/620,273
Filing Date July 15, 2003
First Named Inventor Collins, *et al.*
Group Art Unit Unassigned 1616
Examiner Name Unassigned D. Jones
Attorney Docket Number 07959.105018 COP 1000 DIV 5

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. 1	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
PG	AA	3,936,440		NATH	02-03-1976	
	AB	3,981,863		NISWENDER, <i>et al.</i>	09-21-1976	
	AC	4,209,614		BERNSTEIN, <i>et al.</i>	06-24-1980	
	AD	4,279,859		GUTCHO, <i>et al.</i>	07-21-1981	
	AE	4,283,342		YOLLES	08-11-1981	
	AF	4,301,140		FRANK, <i>et al.</i>	11-17-1981	
	AG	4,465,775		HOUTS	08-14-1984	
	AH	5,308,606		WILSON, <i>et al.</i>	05-03-1994	
	AI	5,405,839		TORAYA, <i>et al.</i>	04-11-1995	
	AJ	5,428,023		RUSSELL-JONES, <i>et al.</i>	06-27-1995	
	AA	5,449,720		RUSSELL-JONES, <i>et al.</i>	09-12-1995	
	AK	5,548,064		RUSSELL-JONES, <i>et al.</i>	08-20-1996	
	AL	5,574,018		HABBERFIELD, <i>et al.</i>	11-12-1996	
	AM	5,589,463		RUSSELL-JONES, <i>et al.</i>	12-31-1996	
	AN	5,739,313		COLLINS, <i>et al.</i>	04-01-1993	
	AO	5,807,832		RUSSELL-JONES, <i>et al.</i>	09-15-1998	
	AP	5,840,880		MORGAN, <i>et al.</i>	11-24-1998	
	AQ	5,869,465		MORGAN, <i>et al.</i>	02-09-1999	
	AR	5,869,466		RUSSELL-JONES, <i>et al.</i>	02-09-1999	
	AS	5,936,082		BAUER	8/10/1999	
	AT	6,004,533		COLLINS, <i>et al.</i>	12-21-1999	
	AU	6,083,926		MORGAN, <i>et al.</i>	07-04-2000	
	AV	6,096,290		COLLINS, <i>et al.</i>	08-01-2000	
	AW	6,150,341		RUSSELL-JONES, <i>et al.</i>	11-21-2000	
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	AY	6,262,253		RUSSELL-JONES, <i>et al.</i>	07-17-2001	
	AZ	6,315,978		GRISSOM, <i>et al.</i>	11-13-01	
PG	AAA	6,613,305		COLLINS, <i>et al.</i>	09-02-2003	

Examiner Signature

D. Jones

Date Considered

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OCT 31 2003

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 4

Complete if Known

Application Number 10/620,273
Filing Date July 15, 2003
First Named Inventor C Illins, et al.
Group Art Unit Unassigned
Examiner Name Unassigned
Attorney Docket Number 07959.105018 COP 1000 DIV 5

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office	Number				
	BA	EP	0005834	BERNSTEIN, et al.	12-12-1979		
	BB	JP	58-046027	AKIRA, et al.	09-14-1981		
	BC	EP	0069450	HOUTS	01-12-1983		
	BD	EP	0165716	OLSON, et al.	12-27-1985		
	BE	WO	89/01475	PARKER, et al.	02-23-1989		
	BF	WO	92/13571	WILSON, et al.	08-20-1992		
	BG	WO	94/27613	RUSSELL-JONES, et al.	12-08-1994		
	BH	WO	94/27641	RUSSELL-JONES, et al.	12-08-1994		
	BI	WO	95/27723	MORGAN, et al.	10-19-1995		
	BJ	WO	96/31243	EDWARDS, et al.	10-10-1996		
	BK	WO	97/14711	MORGAN, et al.	04-24-1997		
	BL	WO	97/18231	COLLINS, et al.	05-22-1997		
	BM	WO	98/08859	GRISSOM, et al.	03-05-1998		
	BN	WO	99/65930	RUSSELL-JONES, et al.	12-23-1999		
	BO	WO	01/30967	GRISSOM, et al.	05-03-2001		
	BP	WO	01/28592	COLLINS, et al.	04-26-2001		
	BQ	WO	01/28595	COLLINS, et al.	04-26-2001		
	BR	WO	01/17694	COLLINS, et al.	12-06-2001		
	BS	WO	01/92288	COLLINS, et al.	12-06-2001		
	BT	WO	02/42318	COLLINS, et al.	05-30-2002		
	BU	WO	02/55530	COLLINS, et al.	07-18-2002		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	BV	ALVAREZ, J., et al., "On a new radiopharmaceutical for kidney imaging", <i>Int'l J. of Applied Radiation and Isotopes</i> , 25, 283-284 (1974).	

Examiner Signature

W. Jones

Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT


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Sheet 3 of 4

Complete if Known

Application Number	10/620,273
Filing Date	July 15, 2003
First Named Inventor	Collins, et al.
Group Art Unit	Unassigned J61P
Examiner Name	Unassigned Jones
Attorney Docket Number	07959.105018 COP 1000 DIV 5

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	CA	AMAGASAKI, T., <i>et al.</i> , "Expression of transcobalamin II receptors by human leukemia K562 and HL-60 cells", <i>Blood</i> , 76, 1380-1386 (October, 1990).	
	CB	ANDERSON, C.J., <i>et al.</i> , "Preparation, biodistribution and dosimetry of copper-64-labeled anti-colorectal carcinoma monoclonal antibody fragments 1A3-F(ab') ₂ ", <i>J. Nuc. Med.</i> , 36, 850-858 (May 1985).	
	CC	ANTON, D.L., <i>et al.</i> , "Carbon-13 nuclear magnetic resonance studies of the monocarboxylic acids of cyanocobalamin, assignments of the b-, d-, and 3-monocarboxylic acids", <i>J. Am. Chem. Soc.</i> , 102, 2215-2219 (March, 1980)	
	CD	ANTON, D.L., <i>et al.</i> , "The synthesis and properties of four spin-labeled analogs of adenosylcobalamin", <i>J. Biol. Chem.</i> , 255, 4507-4510 (May, 1980).	
	CE	BEGLEY, J.A., <i>et al.</i> , "Cobalamin metabolism in cultured human chorionic villus cells", <i>J. Cell. Physiol.</i> , 156, 43-47 (1993).	
	CF	BLOMQUIST, L., <i>et al.</i> , "Uptake of labeled vitamin B21 and 4-iodophenylanine in some tumours of mice", <i>Experientia</i> , 25, 294, 296 (1969).	
	CG	COOPER, B.A., <i>et al.</i> , "Selective uptake of specifically bound cobalt-58 vitamin B12 by human and mouse tumour cells", <i>Nature</i> , 191, 393-395 (July, 1961).	
	CH	COOPERMAN, J.M., "Distribution of radioactive and nonradioactive vitamin B12 in normal and malignant tissues of an infant with neuroblastoma", <i>Cancer Research</i> , 32, 167-172 (January, 1972).	
	CI	COOPERMAN, J.M., <i>et al.</i> , "Distribution of radioactive and nonradioactive vitamin B12 in the dog", <i>J. Biol. Chem.</i> , 235, 191-194 (January, 1960).	
	CJ	FLODTH, H., "Accumulation of labeled vitamin B12 in some transplanted tumours", in <i>Distribution and Kinetics of Labelled Vitamin B12, Acta Radiologica, Supplementum</i> 284, 55-60 (1968).	
	CK	FLODTH, <i>et al.</i> , "Accuulation of labeled vitamin B12 in some transplanted tumours", <i>Int. J. Cancer</i> , 3, 694-499 (1968).	
	CL	KAPLAN, M.A., <i>et al.</i> , "Absorptions studies of 59Fe and 58Co vitamin B12 by whole-body radiometry in the radiation therapy of collum carcinoma", <i>Radiobiol. Radiother.</i> , 24, Abstract 745 (1983).	
	CM	KIKUGAWA, K., <i>et al.</i> , "Direct halogenation of sugar moiety of nucleosides", <i>Tetrahedron Letters</i> , 2, 87-97 (1971).	
	CN	KOLLMER, W.E., <i>et al.</i> , "On a new radiopharmaceutical for kidney imaging", <i>Int. J. Applied Radiation and Isotopes</i> , 25(6), 283-285 (1974).	
	CO	LINDEMANS, J., <i>et al.</i> , "Uptake of transcobalamin II-bound cobalamin by HL-60 cells: effect of differentiation induction", <i>Experimental Cell Research</i> , 184, 449-460 (1989).	

Examiner Signature

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Date Considered

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Sheet 4 of 4

Complete if Known

Application Number	10/620,273
Filing Date	July 15, 2003
First Named Inventor	Collins, et al.
Group Art Unit	Unassigned 11614
Examiner Name	Unassigned D. Jones
Attorney Docket Number	07959.105018 COP 1000 DIV 5

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
DA	DA	PONTO, J.A., "II. Schilling Test", in <i>Pharmaceutical in Medical Imaging</i> , D.P. Swanson, et al., (eds.), MacMillan Publishing Co., Inc., New York, pp. 621-628 (1990).	
DB	DB	SMELTZER, et al., "Synthesis and characterization of fluorescent cobalamin (cobalafuor) derivatives for imaging, <i>Organic Letters</i> , 3(6), 799-801 (2001).	
DC	DC	VARES, Y.V., et al., "Kinetic of 57 Co-cyanocobalamin distribution in organs and tissues of mice with transplanted tumours", <i>Eksp. Onkol</i> , 8, Abstract, 33-36 (1986).	
DD	DD	WILBUR, et al., "Biotin Reagents for Antibody Pretargeting. 4. Selection of Biotin Conjugates for in Vivo Application Based on Their Dissociation Rate from Avidin and Streptavidin." <i>Bioconjugate Chem.</i> , 11(4), 569-583 (June 29, 2000).	
DE	DE	WILBUR, et al., "Evaluation of Biotin-Dye Conjugates for Use in an HPLC Assay to Assess Relative Binding of Biotin Derivatives with Avidin and Streptavidin." <i>Bioconjugate Chem.</i> , 11(4), 584-598 (June 29, 2000).	
DF	DF	WOOLLEY, K.E., et al., "Uptake of [Co-57]-vitamin B-12 by murine tumours of many histological types", <i>Clin. Res.</i> , 41, Abstracts of National Meeting, Assoc. Amer. Physicians, p. 73A (April 1993).	
DG	DG	WU, C., et al., "Investigation of N-linked macrocycles for 111In and 90Y labeling of proteins, <i>Nucl. Med. Biol.</i> , 19, 239-244 (1992).	

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Sheet **1** of **2**

Complete if Known

Application Number	10/620,273
Filing Date	July 15, 2003
First Named Inventor	C Collins, et al.
Group Art Unit	Unassigned 1614
Examiner Name	Unassigned D. Jones
Attorney Docket Number	07959.105018 COP 1000 DIV 5

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U.S. PATENT DOCUMENTS

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		Number	Kind Code (if known)			
	AA	5,608,060	B	AXWORTHY, et al.	03-04-1997	
	AB	5,877,165	B	MIURA, et al.	03-02-1999	
	AC	6,183,723	B	SEETHARAM, et al.	02-06-2001	
	AD	2003-0144198	A	COLLINS, et al.	07-31-2003	

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FOREIGN PATENT DOCUMENTS

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		Office	Number	Kind Code (if known)				
	AE	WO	00/45857	A2, A3	LAWACZECK, et al.	08-10-2000		
	AF	WO	00/62808	A2, A3	COLLINS, et al.	10-26-2000		
	AG	WO	01/92283	A2	COLLINS, et al.	12-6-2001		
	AH	WO	03/00010	A2, A3	COLLINS, et al.	01-21-2003		
	AI	WO	03/25139	A2, A3	COLLINS, et al.	03-27-2003		

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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	AJ	ALLEN, R.H., et al., "Isolation of Gastric Vitamin B12-binding Proteins Using Affinity Chromatography," <i>Journal of Biological Chemistry</i> , 248(10), 3660-3669 (1973).	
	AK	ALLEN, R.H., et al., "Isolation of Vitamin B12-binding Proteins Using Affinity Chromatography," <i>Journal of Biological Chemistry</i> , 247(23), 7695-7701 (1972).	
	AL	ALLEN, R.H., "Human Vitamin B12 Transport Proteins," <i>Progress in Hematology</i> , Vol. 9, , pp. 57-84 (1975)	
	AM	COLLINS, D., et al., "Tumor Imaging via Indium 111-Labeled DTPA-Adenosylcobalamin", <i>Mayo Clinic Proc.</i> , 74, 687-691 (1999).	
	AN	COLLINS, D.A., et al., "Transcobalamin II imaging via radiolabeled diethylene-triaminepentaacetate cobalamin analogs", <i>J. Nucl. Med.</i> , 38(5), 717-723 (1997).	
	AO	FEDOSOV, S.N., et al., "Binding of Cobalamin and Cobinamide to Transcobalamin from Bovine Milk," <i>Biochemistry</i> , 34, 16082-16087 (1995).	
	AP	FEDOSOV, S.N., et al., "Transcobalamin from cow milk: isolation and physico-chemical properties," <i>Biochimica et Biophysica Acta</i> , 1292, 113-119, (1996).	

Examiner Signature

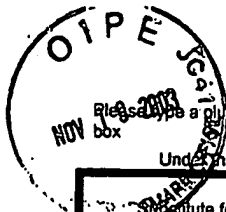
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[Signature]	BA	FINKLER, A.E., et al., "Nature of the Relationship between Vitamin B12 Binding and Cell Uptake," <i>Archives of Biochemistry and Biophysics</i> , 120, 79-85 (1967).	
	BB	HALL, C.A., et al., "Cyclic Activity of the Receptors of Cobalamin Bound to Transcobalamin II," <i>Journal of Cellular Physiology</i> , 133(1), 187-191 (1987).	
	BC	HOGENKAMP, H., et al., "Synthesis and Characterization of nido-Carborane-Cobalamin Conjugates", <i>Nucl. Med. & Biol.</i> , 27, 89-92 (2000).	
	BD	HOGENKAMP, H.P.C., et al., "Diagnostic and Therapeutic Analogues of Cobalamin", <i>Chemistry and Biochemistry of B₁₂</i> , R. Banerjee, ed.; Wiley & Sons (1999), Part II, Section 15, pp. 385-410.	
	BE	MCLEAN, G.R., et al., "Antibodies to Transcobalamin II Block In Vitro Proliferation of Leukemic Cells," <i>Blood</i> , 89(1), 235-242 (1997).	
	BF	NEXØ, E., "Cobalamin Binding Proteins," in <i>Vitamin B12 and B12-proteins</i> , eds. Krantler, B.; Arigoni, D. and Golding, B.T.; Wiley & Sons, Ltd. pp. 461-475.	
	BG	RAPPAZZO, M.E., et al., "Transport Function of Transcobalamin II," <i>Journal of Clinical Investigation</i> , 51, 1915-1918 (1972).	
	BH	SODA, R., et al., "Receptor Distribution and the Endothelial Uptake of Transcobalamin II in Liver Cell Suspensions," <i>Blood</i> , 65(4), 795-802 (1985).	
	BI	UCHINO, H., et al., "Tissue Distribution of Coenzyme B ₁₂ in Rats Following Intravenous Administration," <i>Annals of the New York Academy of Sciences</i> , 112(Art. 2), 844-854 (1964).	

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